Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,DWPI; PLUR=YES; OP=ADJ		
L22	l20 and l21	3	L22
L21	l8 and l9 and l12	682	L21
L20	l1 and l3 and l4 and l5 and l6	142	L20
L19	L18 and l15 and l16	0	L19
L18	l3 and l8 and l12	118	L18
L17	l14 and l15 and l16	24	L17
L16	l4 and l5 and l6	3986	L16
L15	l4 and l10	11149	L15
L14	l3 and l8 and l13	1407	L14
L13	nonwoven or non-woven or unwoven or un-woven	91208	L13
L12	cellular same foam	10464	L12
L11	L10	232550	L11
L10	acrylic polymer or polyvinyl acetate or polystyrene	232550	L10
L9	metal foil or organic film or paper	724374	L9
L8	glass same fibers	178426	L8
L7	rough same textured same face	110	L7
L6	embedded	259498	L6
L5	body same layer	155769	L5
L4	cover same layer	168718	L4
L3	porous same (web or net or mesh or network)	25171	L3
L2	body layer same (web or net or mesh or network)	107	L2
L1	COMPOSITE OR LAMINATE	596687	L1

END OF SEARCH HISTORY

WEST

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Search Results - Record(s) 1 through 15 of 15 returned.

1. Document ID: US 5836357 A

L3: Entry 1 of 15 File: USPT Nov 17, 1998

US-PAT-NO: 5836357
DOCUMENT-IDENTIFIER: US 5836357 A

TITLE: Pressure-expandable conduit liner

DATE-ISSUED: November 17, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kittson; Mark	Niagara Falls			CA
Kulawic; Steve	Jordan Station			CA

US-CL-CURRENT: 138/98; 138/124, 138/128, 138/141, 138/174, 428/36.2

ABSTRACT:

Conduit liners and methods for their construction and use are provided. The liners include a first flexible layer mechanically bonded to at least one glass-containing layer and folded to form a tubular laminate. The laminate can be penetrable by resinous liquid capable of setting the form of substantially continuous matrix within the laminate following the expansion of the laminate within a conduit. In preferred versions of the liner, multiple glass layers are provided on the inner and outer diameter of the construction with a polyester core so as to meet minimum thickness requirements for vibration resistance under American in situ pipe vibration resistance codes.

10 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

2. Document ID: US 5783268 A

L3: Entry 2 of 15 File: USPT Jul 21, 1998

US-PAT-NO: 5783268
DOCUMENT-IDENTIFIER: US 5783268 A

TITLE: High air velocity duct board having minimal turbulence

DATE-ISSUED: July 21, 1998

INVENTOR-INFORMATION

NAME	CITY	STATE	ZIP CODE	COUNTRY
Noonan; Patrick M.	Boggstown	IN		
Hauk; Robert D.	Shelbyville	IN		
Beyer; Frederick M.	St. Paul	IN		

US-CL-CURRENT: 428/34.5; 138/149, 428/219, 428/35.9, 428/36.1, 428/411.1, 428/441, 442/212, 442/219, 442/273, 442/415

ABSTRACT:

A rigid fiber glass duct board for air ducts in which the air contacting surface is a mat facing formed from a saturated polyester/glass mat which presents a smooth surface to flowing air and hence avoids surface degradation at very high air velocities. A method of forming such a board is also disclosed.

45 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments Claims | Draw Desc | Image

3. Document ID: US 5765586 A

L3: Entry 3 of 15 File: USPT Jun 16, 1998

US-PAT-NO: 5765586
DOCUMENT-IDENTIFIER: US 5765586 A

TITLE: Reduction of heat transfer between a body and its environment

DATE-ISSUED: June 16, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Facas; Georges	Pennsauken	NJ		
Brown; Harry L.	Ocean City	NJ		

US-CL-CURRENT: 137/15.01; 137/375, 138/105, 138/148, 165/135, 165/47, 220/592.2

ABSTRACT:

Heat transfer between a body and its surrounding fluidous environment is reduced by placing at least one baffle-insulator adjacent to the body, such that the baffle-insulator which has a thermal conductivity of less than about 5 watts/meter-.degree.K, disturbs, modifies, and/or weakens fluidous environment flow about the body, thus reducing heat transfer between the body and its environment.

13 Claims, 21 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments Claims | Draw Desc | Image

4. Document ID: US 5750225 A

L3: Entry 4 of 15 File: USPT May 12, 1998

US-PAT-NO: 5750225
DOCUMENT-IDENTIFIER: US 5750225 A

TITLE: Laminated vapor barrier

DATE-ISSUED: May 12, 1998

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Petty; Charles J.	Blairstown	NJ		

US-CL-CURRENT: 428/36.2; 428/335, 428/339, 428/341, 428/344, 428/35.8, 428/354, 428/379, 428/388, 428/906

ABSTRACT:

A vapor barrier laminate for use in insulation applications as a facing material. A fiberglass yarn or scrim is positioned between layers of kraft paper. An aluminum foil is adhered directly to the outer kraft paper layer. The paper to foil bond and the paper to paper bond are accomplished with a flame retardant adhesive. The resulting heavier and thicker laminate provides increased rigidity, a smoother outer surface for better abrasion resistance, and a greater tensile strength. Use of the laminate in duct board facing improves the strength of the duct board while facilitating tape adherence for sealing gaps between board sections.

15 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

5. Document ID: US 5578258 A

L3: Entry 5 of 15 File: USPT Nov 26, 1996

US-PAT-NO: 5578258
DOCUMENT-IDENTIFIER: US 5578258 A

TITLE: Method of making an insulation assembly

DATE-ISSUED: November 26, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grant; Larry J.	Westerville	OH		
Monnin; Raymond V.	Perrysburg	OH		
Scott; James W.	Newark	OH		

US-CL-CURRENT: 264/118, 264/119, 423/74

ABSTRACT:

Set Name side by side	Query	Hit Count	Set Name result set
	DB=USPT,PGPB,DWPI; PLUR=YES; OP=ADJ		
L17	l14 and l15 and l16	24	L17
L16	l4 and l5 and l6	3986	L16
L15	l4 and l10	11149	L15
L14	l3 and l8 and l13	1407	L14
L13	nonwoven or non-woven or unwoven or un-woven	91208	L13
L12	cellular same foam	10464	L12
L11	L10	232550	L11
L10	acrylic polymer or polyvinyl acetate or polystyrene	232550	L10
L9	metal foil or organic film or paper	724374	L9
L8	glass same fibers	178426	L8
L7	rough same textured same face	110	L7
L6	embedded	259498	L6
L5	body same layer	155769	L5
L4	cover same layer	168718	L4
L3	porous same (web or net or mesh or network)	25171	L3
L2	body layer same (web or net or mesh or network)	107	L2
L1	COMPOSITE OR LAMINATE	596687	L1

END OF SEARCH HISTORY

An insulation assembly and method of making is disclosed. A fiber pack is engaged along its side edges to tuck the fibers inwardly and also establish a desired width. The insulation assembly has the longitudinally extending tucks along each of its side edges and each of the side edges has a generally concave cross section.

12 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 4

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

6. Document ID: US 5534298 A

L3: Entry 6 of 15 File: USPT Jul 9, 1996

US-PAT-NO: 5534298
DOCUMENT-IDENTIFIER: US 5534298 A

TITLE: Stiff fabric and method of forming the stiff fabric

DATE-ISSUED: July 9, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cross; David M.	Westport	CT		
Hueneke; Manfred H. K.	Graham	NC		
Farris; Ronald A.	Gibsonville	NC		
McConnell; Bobby L.	Greensboro	NC		
Newman; Robert M.	Thomasville	NC		

US-CL-CURRENT: 427/358; 427/389.9, 427/401, 442/103

ABSTRACT:

A stiff fabric comprises a woven synthetic fabric coated with a latex compound aerated to provide a weight upon application to the fabric of between 0.63-0.89 gms./ml. The compound is pressed into the fabric by a knife blade having a rounded convex lower edge whereby the compound applied to one side of the fabric passes into the interstices but remains substantially clear of the face side. The compound is cured on the fabric in an oven at approximately 149.degree. C. for 45-60 seconds.

15 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

7. Document ID: US 5487412 A

L3: Entry 7 of 15 File: USPT Jan 30, 1996

US-PAT-NO: 5487412
DOCUMENT-IDENTIFIER: US 5487412 A

TITLE: Glass fiber airduct with coated interior surface containing a biocide

DATE-ISSUED January 30, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matthews; Kent R.	Littleton	CO		
Schakel; Eric G.	Sedalia	CO		
Gamboa; Ricardo R.	Littleton	CO		

US-CL-CURRENT: 138/149; 138/103, 138/110, 138/137, 138/141, 138/177, 138/178

ABSTRACT:

A rigid, glass fiber airduct for conveying an airstream has an interior surface, adapted to be in contact with the airstream, which is coated with a polymeric coating comprising an organic or inorganic biocide. The polymeric coating has a dry solids content between 10 and 20 grams per square foot of duct board surface and retains its abrasion strength and puncture resistance whereby the interior surface of the airduct can be cleaned by conventional industrial or commercial cleaning procedures while in service without exposing glass fibers to the airstream.

4 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

8. Document ID: US 5379806 A

L3: Entry 8 of 15 File: USPT Jan 10, 1995

US-PAT-NO: 5379806
DOCUMENT-IDENTIFIER: US 5379806 A

TITLE: Fiber glass air duct with coated interior surface containing an organic biocide

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Matthews; Kent R.	Littleton	CO		
Schakel; Eric G.	Sedalia	CO		
Gamboa; Ricardo R.	Littleton	CO		

US-CL-CURRENT: 138/149; 138/103, 138/110, 138/137, 138/141, 138/177, 138/178

ABSTRACT:

A rigid fiber glass air duct for conveying an airstream has an interior surface, adapted to be in contact with the airstream, which is coated with a polymeric coating with an organic biocide. The polymeric coating has a dry solids content of between 10 and 20 grams per square foot of duct board surface and retains its abrasion strength and puncture resistance whereby the interior surface of the duct can be cleaned by conventional industrial or commercial cleaning methods while in service without exposing glass fibers to the airstream.

4 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

9. Document ID: US 5314719 A

L3: Entry 9 of 15 File: USPT May 24, 1994

US-PAT-NO: 5314719
DOCUMENT-IDENTIFIER: US 5314719 A

TITLE: Fungicidal protective coating for air handling equipment

DATE-ISSUED: May 24, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Batdorf; Vernon	Minneapolis	MN		
Brendle; William J.	Maple Grove	MN		

US-CL-CURRENT: 427/385.5; 106/15.05, 106/18.3, 106/18.32, 106/18.33, 106/18.34, 106/18.35, 106/18.36, 165/58, 422/37, 424/405, 424/660, 427/230, 427/239, 428/457, 514/372, 514/646, 514/709, 523/122, 524/171, 524/172, 524/83 , 62/78

ABSTRACT:

HVAC systems having interior surfaces exposed to moist air are protected against fungal growth by coating the interior surfaces with an adherent flexible polymer film which includes a fungicidal composition in an amount effective to provide a zone of inhibition against multiple fungal species of at least 1 mm, and which employs active fungicidal ingredients which are substantially non-volatile and non-soluble in water. Suitably the film is formed by application of a latex coating formulation, free of arsenic, mercury, lead, tin, chlorine or bromine, the formulation comprising an emulsion of a flexible polymer having suspended therein a mixture of fungicides, the fungicide mixture including a barium metaborate fungicide and a second fungicide selected from the group consisting of iodo alkynyl alkyl carbamates, diiodomethyl-p-tolylsulfone, 2-4-thiazolyl-benzimidazole, 2-n-octyl-4-isothiazolin-3-one, zinc dimethyldithiocarbamate, zinc 2-mercaptobenzothiazole, potassium n-hydroxymethyl-n-methyldithiocarbamate, sodium 2-mercaptobenzothiazole, 5-hydroxymethoxymethyl-1-aza-3,7-dioxa-bicyclooctane, 2,3,5,6-tetrachloro-4-pyridine zinc 2-pyridinethiol and N-trichloromethylthiophthalimide

20 Claims, 3 Drawing figures
Exemplary Claim Number: 10
Number of Drawing Sheets: 1

10. Document ID: US 5310594 A

L3: Entry 10 of 15 File: USPT May 10, 1994

US-PAT-NO: 5310594
DOCUMENT-IDENTIFIER: US 5310594 A

TITLE: Composite rigid insulation materials containing V-grooves

DATE-ISSUED: May 10, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holland; David L.	Friendswood	TX		
Nelson; Charles M.	Houston	TX		
Miller; Thomas M.	Walnut	CA		
First; Jay C.	Houston	TX		

US-CL-CURRENT: 428/167; 138/118.1, 138/128, 138/137, 138/151, 138/158, 428/158, 428/159, 428/172, 428/210, 428/212, 428/318.4, 52/738.1

ABSTRACT:

Flat, rectangular composite insulation comprising two dissimilar insulating materials on a separate flexible backing material is described. At least one of the two dissimilar materials is rigid. V-grooves are formed in the dissimilar materials extending from the surface of the insulation opposite of the flexible backing up to, but not through the flexible backing. The V-grooving permits the rigid composite insulation to be fitted to a curved surface such as a pipe.

16 Claims, 15 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

11. Document ID: US 5186704 A

L3: Entry 11 of 15 File: USPT Feb 16, 1993

US-PAT-NO: 5186704
DOCUMENT-IDENTIFIER: US 5186704 A

TITLE: Duct forming machine

DATE-ISSUED: February 16, 1993

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cunningham, Jr.; Robert A.	Argyle	TX		

US-CL-CURRENT: 493/18; 493/117, 493/19, 493/295, 493/302, 493/382

ABSTRACT:

A duct closure machine for closing duct board into duct with tape which can close duct having four or more sides. Duct board is moved through the machine by a single source of power driving upper and lower rollers with the lower set of rollers movable to accomodate duct of different size. The tape applicator is shiftable

laterally tc apply tape to duct of different number of sides such as ten sides. The tape applicator is controlled with a simple power circuit in which power to cut off the tape is only applied for a brief time as the completed duct passes through the machine.

5 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KMC | Draw Desc | Image

12. Document ID: US 5169700 A

L3: Entry 12 of 15 File: USPT Dec 8, 1992

US-PAT-NO: 5169700
DOCUMENT-IDENTIFIER: US 5169700 A
**** See image for Reexamination Certificate ****

TITLE: Faced fiber glass insulation

DATE-ISSUED: December 8, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Meier; Spencer I.	Parker	CO		
Lostak; Charles	Littleton	CO		

US-CL-CURRENT: 428/74; 244/121, 244/129.2, 428/192, 428/193, 428/332, 428/337, 428/920, 428/921, 442/50, 442/55

ABSTRACT:

An aircraft insulation product comprising a glass fiber blanket faced on at least one major face with an air permeable sheet. Insulating fibers coated with unbonded binder are directed to a web of the permeable sheet material supported on a moving collection chain, and the resulting fibrous layer and the web are sent to an oven where the binder is cured. The collection web thus becomes bonded to the blanket by the binder to become an integral part of the insulation product. A plurality of stacked blankets, the edges of which are covered by a film, may be used instead of a single faced blanket.

14 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 3

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

KMC | Draw Desc | Image

13. Document ID: US 5020481 A

L3: Entry 13 of 15 File: USPT Jun 4, 1991

US-PAT-NO: 5020481
DOCUMENT-IDENTIFIER: US 5020481 A

TITLE: Thermal insulation jacket

DATE-ISSUED: June 4, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nelson; Thomas E.	Crestwood	KY	40014	

US-CL-CURRENT: 122/494; 122/19.2, 126/361.1, 138/149, 220/592.24, 220/592.25, 220/902

ABSTRACT:

A thermal insulating jacket for use around pipes, conduits, tanks and related members according to the present invention includes a flexible outer covering such as a sheet of plastic or polyvinylchloride which has bonded to its surface an alternating series of insulation material strips. The insulation material strips which are bonded to the flexible outer covering include a first plurality of flexible insulation material strips and a second plurality of rigid insulation material strips. These different material strips are arranged in alternating sequence and the combination of outer covering and insulation strips is sufficiently flexible and formable so as to be wrapped into a generally cylindrical shape which may then be disposed around a pipe, conduit, tank or related member, for thermally insulating that member. The outer covering may be a one-piece member or a hinged member.

1 Claims, 52 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 16

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments

PWIC | Draw Desc | Image

14. Document ID: US 4990370 A

L3: Entry 14 of 15 File: USPT Feb 5, 1991

US-PAT-NO: 4990370
DOCUMENT-IDENTIFIER: US 4990370 A

TITLE: On-line surface and edge coating of fiber glass duct liner

DATE-ISSUED: February 5, 1991

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Terry; James R.	Cleburne	TX		
Matthews; Kent R.	Littleton	CO		
Totsch; Ricky W.	Joshua	TX		
Timms; Donny L.	Cleburne	TX		

US-CL-CURRENT: 427/209; 118/410, 118/413, 118/414, 427/284, 427/345, 427/359

ABSTRACT:

Apparatus and a method is shown for continuously, in an on-line production, applying a layer of coating material to the horizontal upper surface of a fiber glass blanket

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Search Results - Record(s) 1 through 10 of 10 returned.

1. Document ID: US 3915783 A

L1: Entry 1 of 10 File: USPT Oct 28, 1975

US-PAT-NO: 3915783
DOCUMENT-IDENTIFIER: US 3915783 A

TITLE: Making a thermosetting resin impregnating laminate

DATE-ISSUED: October 28, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Goppel; Johan M.	Delft			NL
Chant; Peter R.	Delft			NL

US-CL-CURRENT: 156/313; 156/245, 427/429, 428/297.4, 428/322.7, 428/413, 428/417

ABSTRACT:

The present invention provides a process for making a thermosetting resin article which comprises (a) impregnating a compressible open-cell sheet with a thermosetting resin (b) applying a fibrous layer to at least one side of the sheet, (c) allowing the assembly to cure. The invention further is directed to thermosetting articles made by this process.

8 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw Desc | Image

2. Document ID: US 3885593 A

L1: Entry 2 of 10 File: USPT May 27, 1975

US-PAT-NO: 3885593
DOCUMENT-IDENTIFIER: US 3885593 A

TITLE: Stretchable reinforced wrapper for insulated flexible duct

DATE-ISSUED: May 27, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Koerber; Marvin A.	Abbeville	SC		
Richitelli; Charles G.	Greenwood	SC		

US-CL-CURRENT: 138/128; 138/107, 138/131, 138/149, 138/172

ABSTRACT:

A stretchable but reinforced wrapper or moisture and air barrier is used in the fabrication of insulated flexible duct for air conditioning, heating, and ventilating systems. The wrapper is a laminate of one or more films having an inherent stretch or elongation characteristic in both axial and bi-axial directions, and a reinforcing material of fabric or fiber for reinforcing the film layer or layers while still allowing bi-axial stretch or elongation of the wrapper and duct.

27 Claims, 7 Drawing figures
Exemplary Claim Number: 3
Number of Drawing Sheets: 2

3. Document ID: US 3861425 A

L1: Entry 3 of 10 File: USPT Jan 21, 1975

US-PAT-NO: 3861425
DOCUMENT-IDENTIFIER: US 3861425 A

TITLE: COATING COMPOSITION

DATE-ISSUED: January 21, 1975

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Clark; Vincent De Paul	Heath	OH		

US-CL-CURRENT: 138/149; 138/145, 138/DIG.2, 428/432, 428/441, 428/921, 524/405

ABSTRACT:

A water base, hardenable coating composition is disclosed for use on the inner or air conducting surfaces of fibrous glass thermal insulation employed in heating, cooling or ventilating conduits. The coating comprises, by weight: 70 to 90 percent of aluminum or magnesium hydrate; 5 to 20 percent of a binder such as vinyl acrylic latex or polyethylene vinyl acetate latex; and 1 to 10 percent of a flame retardant such as a sodium borate or boric acid.

4 Claims, 0 Drawing figures
Exemplary Claim Number: 1

4. Document ID: US 3768523 A

L1: Entry 4 of 10 File: USPT Oct 30, 1973

US-PAT-NO: 3768523

DOCUMENT-IDENTIFIER: US 3768523 A

TITLE: DUCTING

DATE-ISSUED: October 30, 1973

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Schroeder; Clifford A.	Woodland Hills	CA		

US-CL-CURRENT: 138/141; 138/149

ABSTRACT:

Ducting is disclosed having an inner composite of fine fibrous insulating material and a composite of textile fibrous material secured about the inner composite. A fluid-impermeable sleeve may be positioned about the composite of textile fibers.

5 Claims, 5 Drawing figures Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

5. Document ID: US 3605534 A

L1: Entry 5 of 10 File: USPT Sep 20, 1971

US-PAT-NO: 3605534
DOCUMENT-IDENTIFIER: US 3605534 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: September 20, 1971

US-CL-CURRENT: 409/304; 83/428, 83/436.3, 83/579, 83/662, 83/699.61, 83/875

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

6. Document ID: US 3557840 A

L1: Entry 6 of 10 File: USPT Jan 26, 1971

US-PAT-NO: 3557840
DOCUMENT-IDENTIFIER: US 3557840 A

TITLE: CELLULAR PLASTIC FOAM INSULATION BOARD STRUCTURES

DATE-ISSUED: January 26, 1971

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Maybee; Richard C.	Oakville, Ontario			CA

US-CL-CURRENT: 138/149; 264/48, 52/631, 52/69, 52/794.1

ABSTRACT:

Preformed cellular plastic foam insulation board structures are provided typically with a hand deformable outer skin surface. In the preferred embodiment, the preformed cellular plastic is polyurethane foam which may appear as a sandwich configuration between inner and outer hard deformable skin surfaces. Various insulation configurations are also provided for insulating line pipe, combinations of traced pipes, joints, unions, ducts, and the like.

13 Claims, 10 Drawing figures Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

7. Document ID: US 3549473 A

L1: Entry 7 of 10 File: USPT Dec 22, 1970

US-PAT-NO: 3549473
DOCUMENT-IDENTIFIER: US 3549473 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: December 22, 1970

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Name not available				

US-CL-CURRENT: 442/189; 428/392, 442/246, 521/106, 521/107, 521/122, 521/123, 521/136, 521/919, 524/145, 524/430

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

8. Document ID: US 3420142 A

L1: Entry 8 of 10 File: USPT Jan 7, 1969

US-PAT-NO: 3420142
DOCUMENT-IDENTIFIER: US 3420142 A

TITLE: TEXT NOT AVAILABLE

DATE ISSUED: January 7, 1969

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Name not available				

US-CL-CURRENT: 409/304; 144/136.1, 144/136.9, 493/363

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

9. Document ID: US 3093037 A

L1: Entry 9 of 10 File: USPT Jun 11, 1963

US-PAT-NO: 3093037
DOCUMENT-IDENTIFIER: US 3093037 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: June 11, 1963

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Name not available				

US-CL-CURRENT: 493/365

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

10. Document ID: US 3002857 A

L1: Entry 10 of 10 File: USPT Oct 3, 1961

US-PAT-NO: 3002857
DOCUMENT-IDENTIFIER: US 3002857 A

TITLE: TEXT NOT AVAILABLE

DATE-ISSUED: October 3, 1961

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Name not available				

US-CL-CURRENT: 428/378; 106/628, 264/DIG.19, 65/451

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Draw Desc | Image

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Term	Documents
"3002857"[USPT]	1
3002857S	0
"3093037"[USPT]	1
3093037S	0
"3420142"[USPT]	1
3420142S	0
"3549473"[USPT]	1
3549473S	0
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1. Document ID: US 4909282 A

L2: Entry 1 of 13 File: USPT Mar 20, 1990

US-PAT-NO: 4909282
DOCUMENT-IDENTIFIER: US 4909282 A

TITLE: Pipe insulation, in particular for pipe bends and elbows

DATE-ISSUED: March 20, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Staugaard; Arne	Roskilde			DK

US-CL-CURRENT: 138/149; 138/144

ABSTRACT:

Pipe insulation comprising a number of substantially identical, annular bodies cut out in the shape of sheets from mineral wool, glass wool or similar fibre materials and having such a fibre structure that their compressibility is biggest in axial direction, the mineral wool bodies being put together around a common axis and wrapped in a resilient, crepe-structured or pleated sheet material glued to the mineral wool. In order to make possible the bending of the pipe insulation also in the case of the glue being hardened to such an extent that it has become hard and brittle, the glue is applied in the shaped of essentially parallel rows of glue points, the rows running substantially perpendicular to the axis of the insulation and forming between themselves an encircling band of glue-free sheet material.

13 Claims, 4 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

2. Document ID: US 4895745 A

L2: Entry 2 of 13 File: USPT Jan 23, 1990

US-PAT-NO: 4895745
DOCUMENT-IDENTIFIER: US 4895745 A
**** See image for Certificate of Correction ****

TITLE: Dark acrylic pressure-sensitive adhesive

DATE-ISSUED: January 23, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Vesley; George F.	Hudson	WI		
Klingen, Jurgen	Schwalmtal			DE

US-CL-CURRENT: 428/40.4; 428/220, 428/313.9, 428/317.5, 428/343, 428/355AC, 428/355R, 428/406

ABSTRACT:

A pressure-sensitive adhesive tape can be produced by photopolymerization and yet its pressure-sensitive adhesive layer can have a dark appearance when it contains a pigment or dye plus finely divided hydrophobic silica. As compared to a tape which is identical except for omission of the hydrophobic silica, the adhesive layer of the tape is substantially darker and usually of substantially more intense color. Furthermore, the tape exhibits better adhesive properties than do otherwise identical tapes containing no silica. The pressure-sensitive adhesive preferably is an acrylic pressure-sensitive adhesive and may be filled with glass microbubbles which afford a foamlike appearance and character.

16 Claims, 0 Drawing figures
Exemplary Claim Number: 1

3. Document ID: US 4680070 A

L2: Entry 3 of 13 File: USPT Jul 14, 1987

US-PAT-NO: 4680070
DOCUMENT-IDENTIFIER: US 4680070 A

TITLE: Tubes of microporous thermal insulation material

DATE-ISSUED: July 14, 1987

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hughes; John T.	Worcester			GB

US-CL-CURRENT: 156/218; 138/149, 138/151, 428/34.2, 428/34.5, 428/36.4

ABSTRACT:

Tubes of microporous thermal insulation material are manufactured by compacting microporous material to a slab having a density of about 150-400 Kg/m.sup.3 and a thickness of about 1-5 mm, applying to one surface of the slab a membrane, for example of self-adhesive aluminum foil, wrapping the slab around a mandrel so that the ends of the slab abut substantially against each other, and securing the ends of the slab relative to each other, for example by means of a protruding flap of aluminum foil.

10 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

4. Document ID: US 4621013 A

L2 Entry 4 of 13 File: USPT Nov 4, 1986

US-PAT-NO: 4621013
DOCUMENT-IDENTIFIER: US 4621013 A

TITLE: Thermoformable laminate structure

DATE-ISSUED: November 4, 1986

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Holtrop; James S.	South Windsor	CT		
Maurer; Richard P.	Wilbraham	MA		

US-CL-CURRENT: 442/226; 428/304.4, 428/319.7

ABSTRACT:

A moisture resistant, moldable, thermoformable laminate structure comprising a layer of foamed thermoplastic material having a polymer-impregnated cloth bonded to one surface thereof.

6 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

5. Document ID: US 4528053 A

L2: Entry 5 of 13 File: USPT Jul 9, 1985

US-PAT-NO: 4528053
DOCUMENT-IDENTIFIER: US 4528053 A

TITLE: Manufacturing fiberboard ducts

DATE-ISSUED: July 9, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Auer; Mark J.	Bay Village	OH	44140	

US-CL-CURRENT: 156/204; 156/468, 156/498, 226/196.1, 242/615.2, 493/179, 493/52, 493/78

ABSTRACT:

The apparatus forms fiberboard hollow ducts from fiberboard and comprises means for collapsing or partially collapsing the fiberboard into a flat collapsed fiberboard

or partially collapsed fiberboard for advancing the collapsed or partially collapsed fiberboard through a preheating and heating stage while heat sensitive tape is applied to the linear seam of the advancing fiberboard. After tape is applied, means for applying pressure and cooling operate to permanently set the tape.

23 Claims, 14 Drawing figures
Exemplary Claim Number: 1,23
Number of Drawing Sheets: 6

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

6. Document ID: US 4389587 A

L2: Entry 6 of 13 File: USPT Jun 21, 1983

US-PAT-NO: 4389587
DOCUMENT-IDENTIFIER: US 4389587 A

TITLE: Unitary sleeving insulation

DATE-ISSUED: June 21, 1983

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Levine; Herbert R.	Dover	NH		
Landry; L. Gerard	Somersworth	NH		

US-CL-CURRENT: 310/208; 138/140, 138/149, 138/DIG.2, 310/43

ABSTRACT:

An improved high dielectric strength unitary insulation sleeving is described. The insulation sleeving comprises an inner insulating layer such as woven fiberglass overcoated with an insulation resin such as an acrylic resin, having an additional insulating layer such as fiberglass overbraided upon it. The overbraided layer is secured to the inner resin-sleeving member by means of an additional impregnation with an electrically insulating binder resin, such as acrylic, to secure the composite together. This material, in addition to having the requisite mechanical and electrical properties for use on coil leads, is specifically adapted to VPI processing and can be utilized reliably with minimal effort. For example, the material has comparable and, in some instances, superior dielectric breakdown voltages as compared to conventionally used sleeving and is not subject to layer slippage which can decrease electrical properties, as can occur with conventionally used materials.

5 Claims, 2 Drawing figures
Exemplary Claim Number: 3,4,5
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

7. Document ID: US 4310585 A

L2: Entry 7 of 13 File: USPT Jan 12, 1982

US-PAT-NO: 4310585
DOCUMENT-IDENTIFIER: US 4310585 A

TITLE Fibrous product formed of layers of compressed fibers

DATE-ISSUED: January 12, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Shannon; Richard F.	Lancaster	OH		

US-CL-CURRENT: 428/218; 138/145, 138/149, 138/DIG.2, 428/219, 428/426, 428/920, 442/326

ABSTRACT:

The disclosure embraces a method of spraying a binder composition of hybrid character containing both organic and inorganic materials into a fiber-forming hood or chamber onto glass fibers produced by a fiber-forming process, the disclosure embracing fibrous insulation products, such as pipe insulation and block insulation, the products embodying hybrid binder composition wherein the organic phase of the binder composition improves moldability and handleability of the fibrous product during processing and installation and which provides hardness and toughness characteristics in the products to resist or prevent handling damage and physical damage in use, the inorganic phase of the binder system providing high bond strength and improved thermal stability in the product particularly under high temperatures which may volatilize the organic binder, the inorganic phase of the binder system preventing or resisting fiber slump under high temperature conditions.

18 Claims, 14 Drawing figures
Exemplary Claim Number: 1,17
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw Desc | Image

8. Document ID: US 4304267 A

L2: Entry 8 of 13 File: USPT Dec 8, 1981

US-PAT-NO: 4304267
DOCUMENT-IDENTIFIER: US 4304267 A
**** See image for Certificate of Correction ****

TITLE: Interlocking refractory for covering a pipe

DATE-ISSUED: December 8, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Campbell, Jr.; Frank	Houston	TX	77058	

US-CL-CURRENT: 138/149; 138/155, 428/902, 432/234

ABSTRACT:

A light-weight, thermally resistant, shock-resistant refractory for covering a water

pipe in a high-temperature environment. The refractory shape is a partial cylinder including a body segment, two protuberances spaced apart from and on either side of the body segment by corresponding recesses and terminating in a void between the two protuberances. Two identical segments, when axially aligned in juxtaposition, are fitted together around a pipe such that the body segment of each refractory shape is intimately received by the corresponding void of the opposite refractory shape and the pair of protuberances of one shape are closely received and interlocked with the corresponding pair of recesses in the opposing shape to form a substantially cylindrical refractory covering around the pipe. The shape requires no additional means to support itself around the pipe.

10 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

9. Document ID: US 4243075 A

L2: Entry 9 of 13 File: USPT Jan 6, 1981

US-PAT-NO: 4243075
DOCUMENT-IDENTIFIER: US 4243075 A
**** See image for Certificate of Correction ****

TITLE: Composite pipe

DATE-ISSUED: January 6, 1981

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McPherson; Alex L.	Winfield	IL		
Triestram; Douglas E.	Coshocton	OH		
Lawrence, Jr.; James E.	Coshocton	OH		

US-CL-CURRENT: 138/174; 138/124, 138/125, 138/132, 138/133, 138/153

ABSTRACT:

A composite reinforced plastic pipe and method of making the same are disclosed wherein a resin impregnated surfacing mat is formed into a tubular inner liner on a mandrel or the like, a plurality of resin impregnated continuous fiberglass strands are helically wound upon the inner liner to form an inner layer, a sand-resin composition is applied onto the inner layer to form a tubular core, and an outer layer of resin impregnated continuous fiberglass strands are helically wound upon the tubular core whereafter the composite pipe is cured to provide a pipe having high resistance to internal and external pressures.

5 Claims, 2 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments KWIC | Draw Desc | Image

10. Document ID: US 4183379 A

L2: Entry 10 of 13 File: USPT Jan 15, 1980

US-PAT-NO: 4183379
DOCUMENT-IDENTIFIER: US 4183379 A
**** See image for Certificate of Correction ****

TITLE Duct board assembly

DATE-ISSUED January 15, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Marquette; Ralph L.	Indianapolis	IN		
Jones; James E.	Indianapolis	IN		

US-CL-CURRENT: 138/158; 138/149, 138/161

ABSTRACT:

Disclosed is a duct board assembly which comprised a panel of conventional duct board formed of rigid thermal insulation to which is attached boardering strips on one face of the panel; the panel may be provided with spaced, longitudinal grooves to define the wall widths of an air duct section to be formed from the duct board assembly and the outer margins of said panel-framing strips being provided with locking means to provide a closed longitudinal seam for the air duct section and to provide for closed joining, end-to-end, of successive duct sections.

5 Claims, 8 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Drawing Desc | Image

11. Document ID: US 4101700 A

L2: Entry 11 of 13 File: USPT Jul 18, 1978

US-PAT-NO: 4101700
DOCUMENT-IDENTIFIER: US 4101700 A

TITLE: Thermally insulating duct liner

DATE ISSUED: July 18, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ray, Jr.; Richard James	Toledo	OH		
Popy; Daniel Paul	Rossford	OH		
Bohweder; Theodore Richard	Toledo	OH		

US-CL-CURRENT: 428/131; 138/DIG.2, 428/138, 428/323, 428/426, 428/920, 442/136, 442/378

ABSTRACT:

Disclosed herein is a flexible thermally insulating duct liner comprising a fibrous thermal insulation layer having an organic fibrous layer having an open structure bonded to its working face, the working face being thereafter coated with a flame retardant vinyl polymer containing coating. The duct liner of the present invention has an extremely smooth surface which reduces air friction to a minimum. Still the product is very flexible, easy to work with, and resistant to delamination or working surface failure.

13 Claims, 0 Drawing figures
Exemplary Claim Number: 1

12. Document ID: US 4067678 A

L2: Entry 12 of 13 File: USPT Jan 10, 1978

US-PAT-NO: 4067678
DOCUMENT-IDENTIFIER: US 4067678 A

TITLE: Apparatus for making a fibrous board-like product having a male edge and a female edge

DATE-ISSUED: January 10, 1978

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beranek, Jr.; Robert Louis	Johnson	TX		
Timms; Donny Lee	Johnson	TX		

US-CL-CURRENT: 425/305.1; 264/146, 264/257, 425/324.1, 425/385, 425/404, 425/406

ABSTRACT:

Disclosed is a method and apparatus for making a board-like product capable of being formed into a duct section having a male end and a female end for joining sections together to form a duct. Inorganic fibers coated with a heat setable binder and collected in the form of a blanket are passed between heated moving surfaces to cure the binder in the top and bottom surface portions. The resultant partially cured blanket is then passed between one or more sets of heated platens to completely cure the binder and to shape the blanket to the desired thickness and configuration. A flat valley depression is formed longitudinally along the blanket down its center portion, and each edge is provided with a male edge, in the first set of platens. After the blanket has been shaped and cured, it is separated into two strips along the middle portion of the flat valley to form two strips, each having a female edge along one longitudinal edge and a male edge along the opposite edge. The method and apparatus of the present invention provides an improved female edge, i.e., one having a much smaller radius than produced in the prior art process and capable of forming better joints in air duct systems.

4 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

13. Document ID: US 4005234 A

L2. Entry 13 of 13 File: USPT Jan 25, 1977

US-PAT-NO: 4005234
DOCUMENT-IDENTIFIER: US 4005234 A

TITLE: Tubular article and method of making the same

DATE-ISSUED January 25, 1977

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Stroupe; James D.	Newtown	PA		

US-CL-CURRENT: 138/141; 138/127, 138/149, 138/DIG.10, 156/245, 428/195, 428/209, 428/319.1, 428/35.9, 428/36.1

ABSTRACT:

Tubular articles and the like and methods of making the same are disclosed, the tubular article being of desired tortuous shape, strong and rigid, free from porosity, light in weight, resistant to high and low temperatures with outerskin layers to improve fluid conveying and storage characteristics for example an exterior metallic foil or mesh lamina or skin of heat reflective and dispersive qualities and suitable for electric resistance heating if desired. The article is formed in a mold with an inflatable mandrel which carries a surrounding knitted fabric resin carrying component and with an exterior lamina or skin which is applied in the mold for subsequent integration in the article by matrix curing.

9 Claims, 9 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | KWIC | Draw. Desc | Image

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